**U.S. Dept. of Agriculture** **AL-ENG-16**
**Natural Resources Conservation Service** **August 2007**

## WATERWAY DESIGN

Waterway No. _____

Rainfall Dist. Type II ☐ or III ☐ D.A. _____ ac. Class _____

Soil _____ Land use or practice _____

Hyd. Condition_____ Hyd. Group_____

C.N. _____ W/S Slope_____% Grade_____ ft/100 ft.

Flow Length_____ ft. Tc _____ Hrs.

Rainfall (10 YRS) _____ in. Ia _____ in. Ia/P_____

Runoff_____ in. Qu _____ CFS/AC/IN

Q 10 yrs. = _____cfs Veg. Cover_____

Cond of veg _____, _____ in. to _____ in. tall

Erodibility _____ Perm. VEL ($V_1$) _____ ft./sec.

Tw= _____ + 4 = 4 ft. Depth = _____ + .25 = 0.25 ft.

$V_2$= _____ ft/sec. Top width (used) _____ ft.

Area = (W) _____ ft. x (L) _____ ft. / 43560 = 0.0 ac.

Vegetation_____

Designed_____ Checked_____